CFL Color Roundtable Meeting

Summary of Meeting
Agenda & Discussions

By

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The Lighting Research Center

CFL Color Roundtable Meeting

Increasing Market Acceptance of CFLs

- The Lighting Research Center, in cooperation with the ENERGY STAR® program under the U.S. Environmental Protection Agency and the U.S. Department of Energy, investigated methods of increasing market acceptance of screw-base compact fluorescent lamps (CFLs).

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Scope

- Perform limited laboratory measurements
  - Color
  - Warm-up time
- Verify the ranking of the issues/barriers associated with consumer acceptance of CFLs
- Suggest actions to overcome the identified issues.

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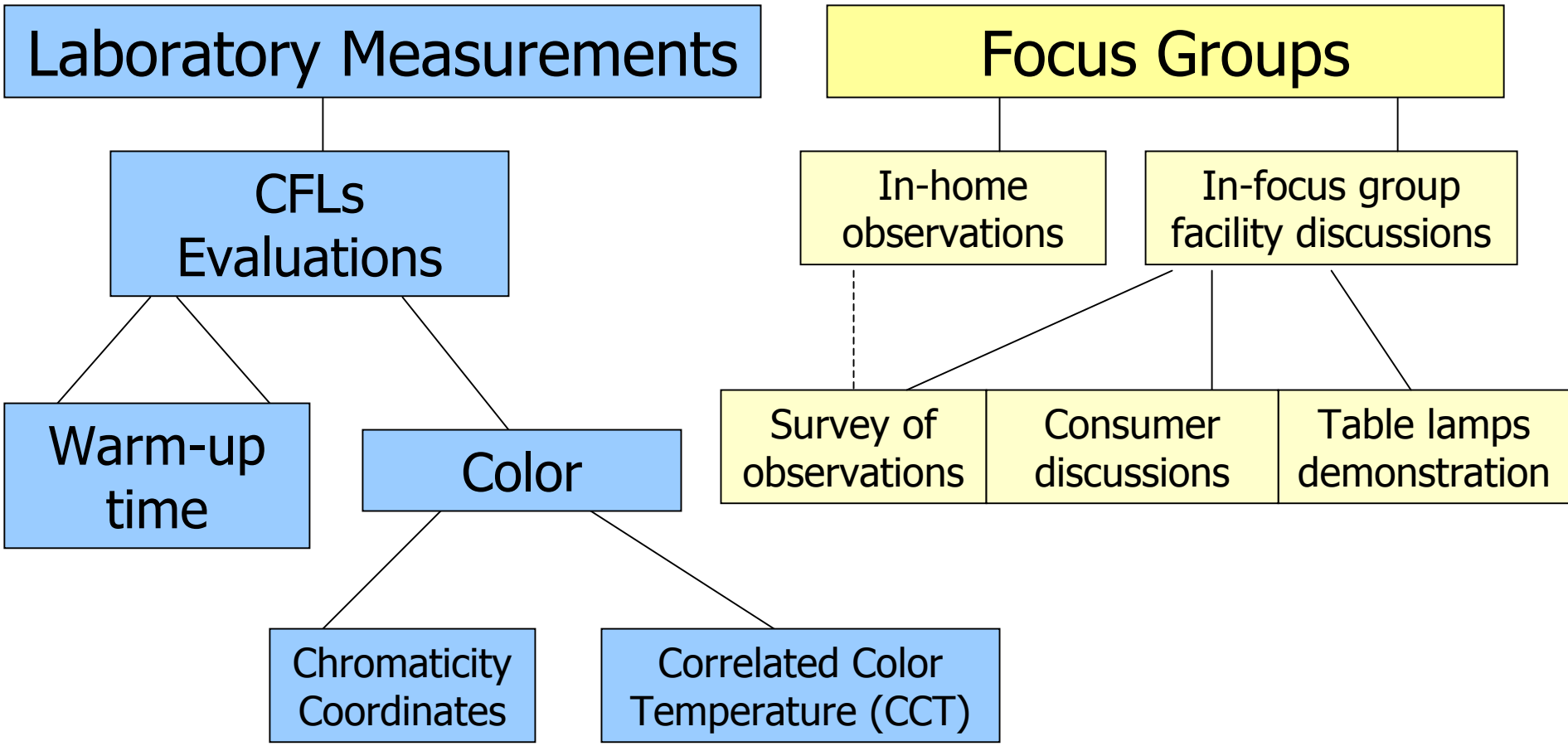

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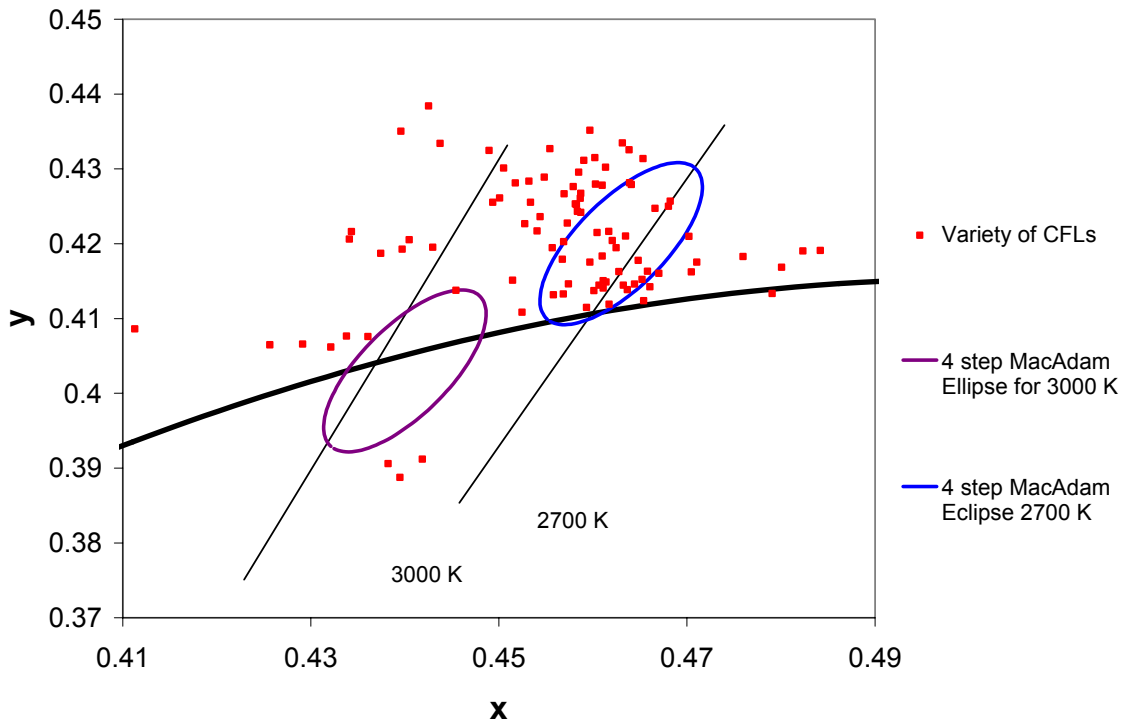
Results

- Wide variation in CCT and chromaticity coordinates
  - Between manufacturers
  - Within manufacturers
- CCT is not an unambiguous description of color



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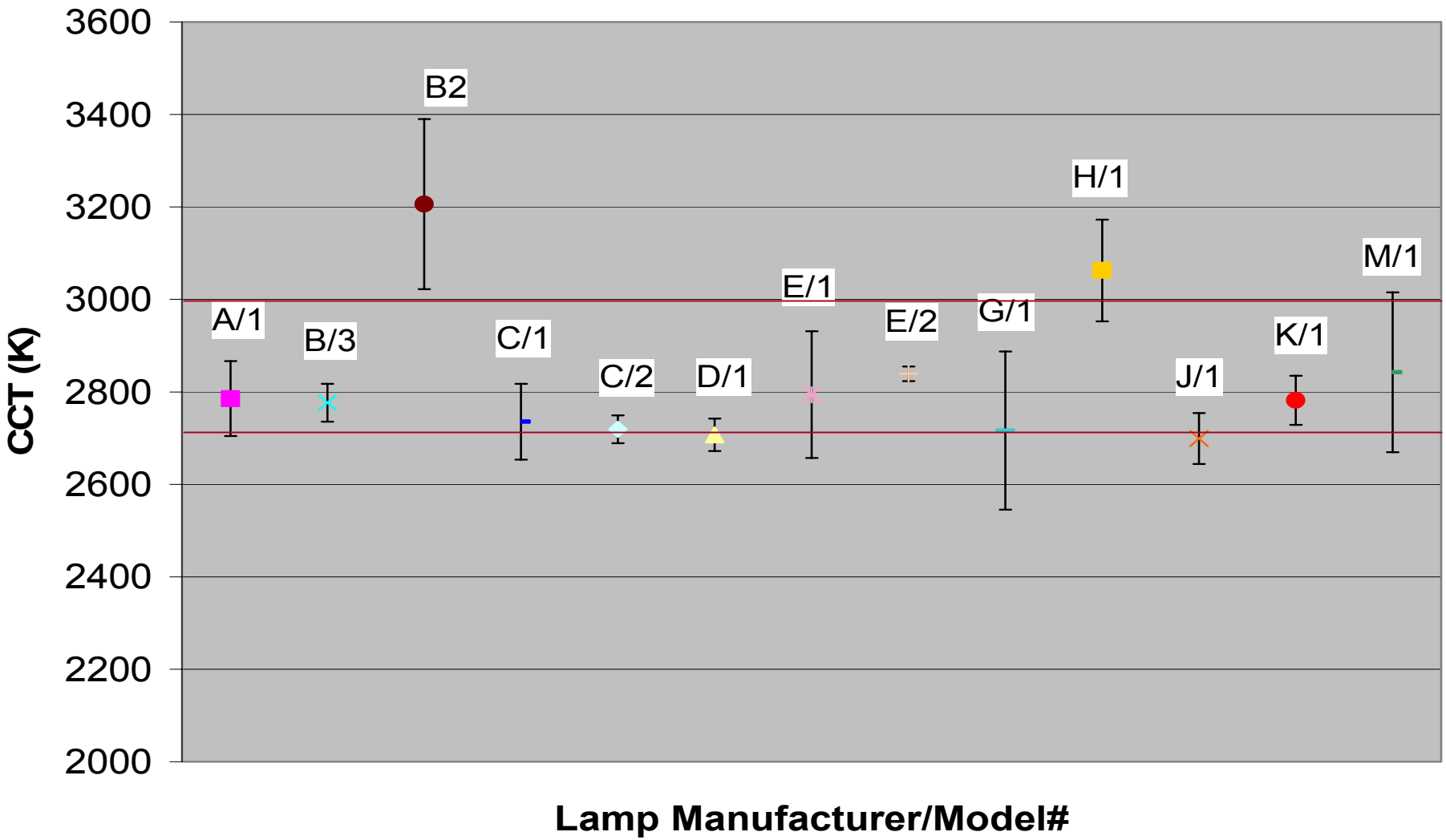

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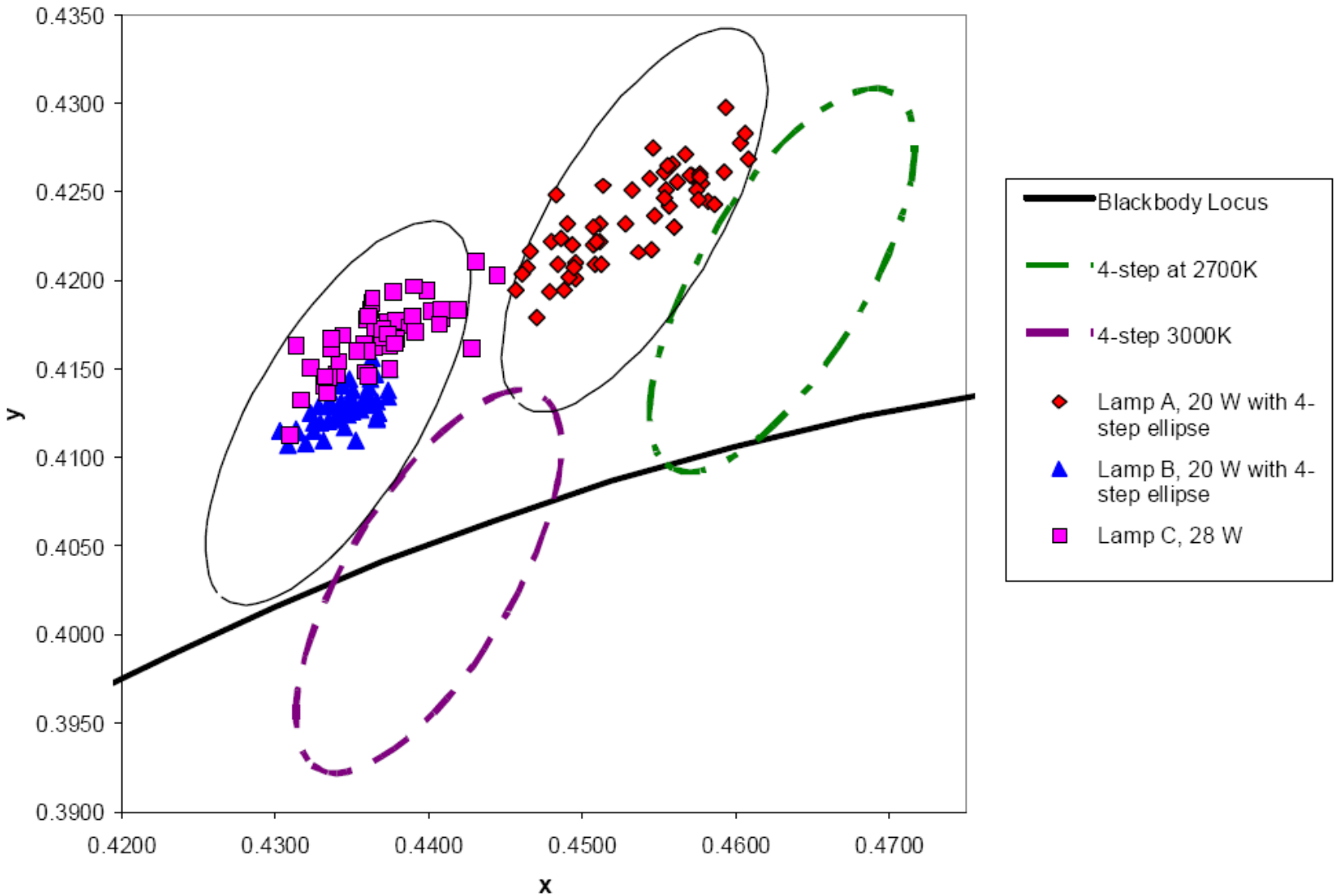

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- Color
  - Need to have greater precision in color specification
    - CCT is not a good metric
  - Communication needs to be simpler
    - Avoid using industry jargon

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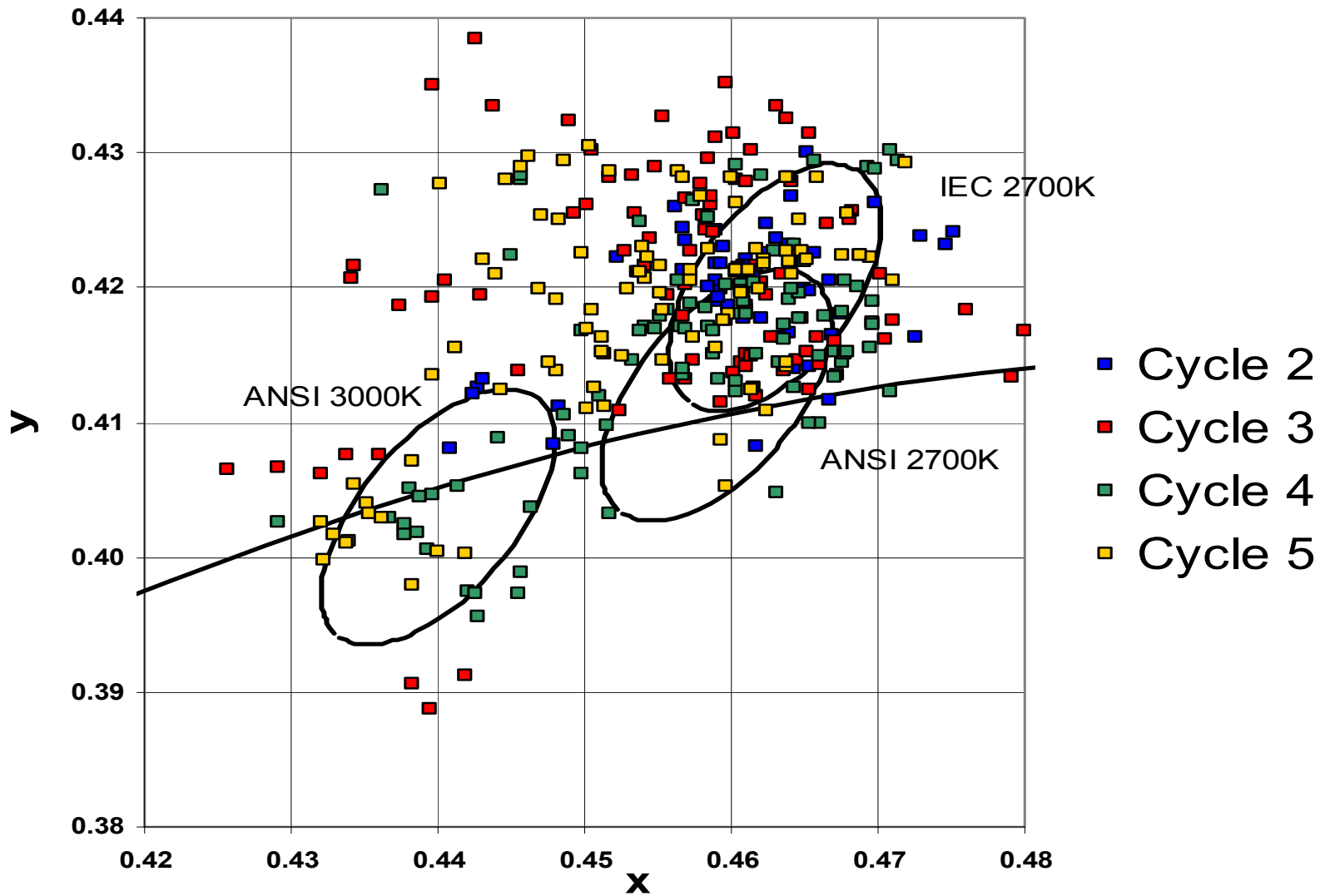

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- Current Status
  - NEMA submitted proposed “hockey stick”, which is being evaluated by LRC, EPA, and DOE

For more information, please go to www.lrc.rpi.edu

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Response & Proposal

From Lamp Manufacturers

By

Peter Bleasby

Director of Industry Relations and Standards

Osram Sylvania

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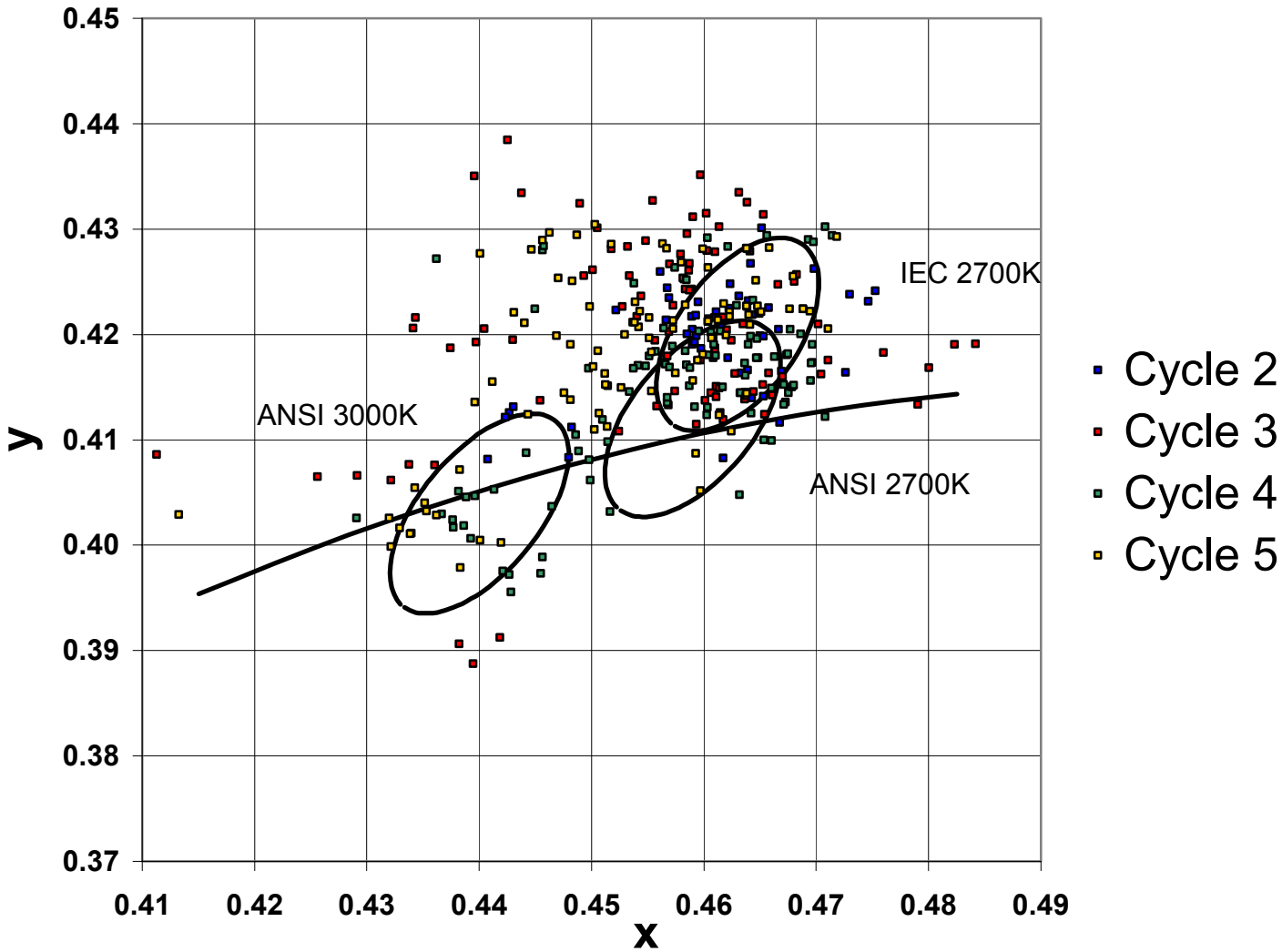
Response To The Response

By

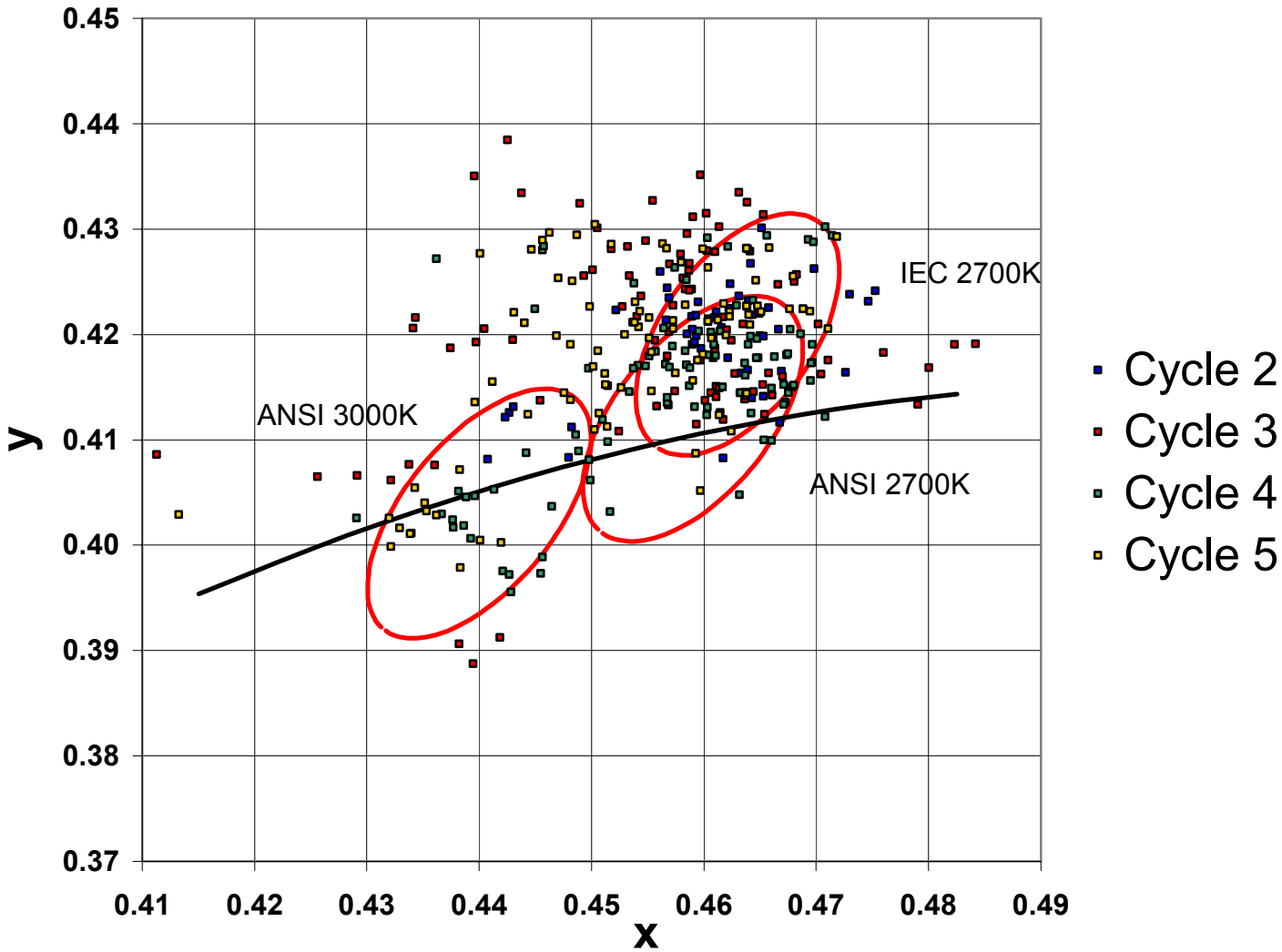
Conan O'Rourke
Technical Director
The Lighting Research Center

Actually A Perspective On CFL CCT Tolerances

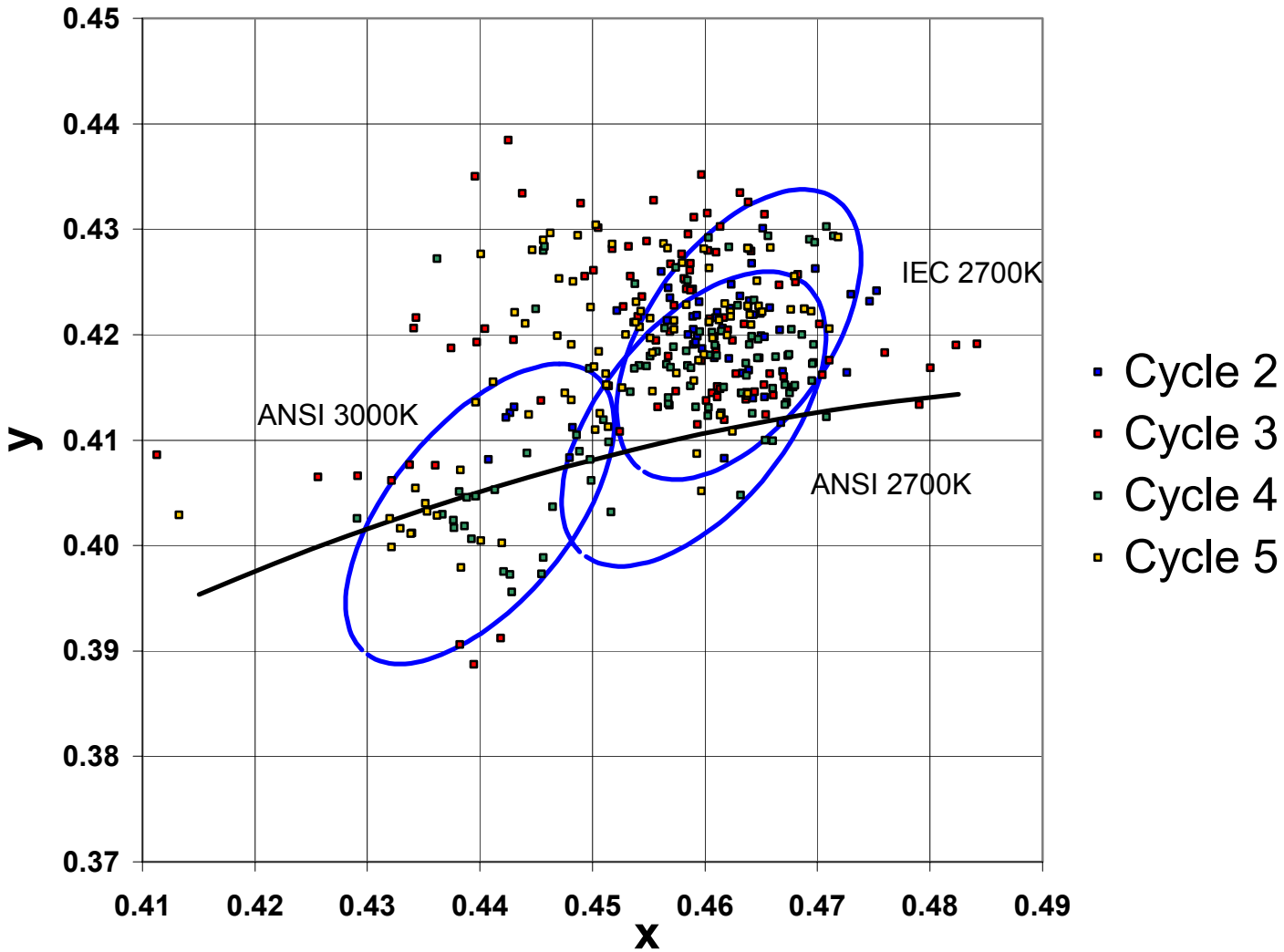
4 Step Ellipse



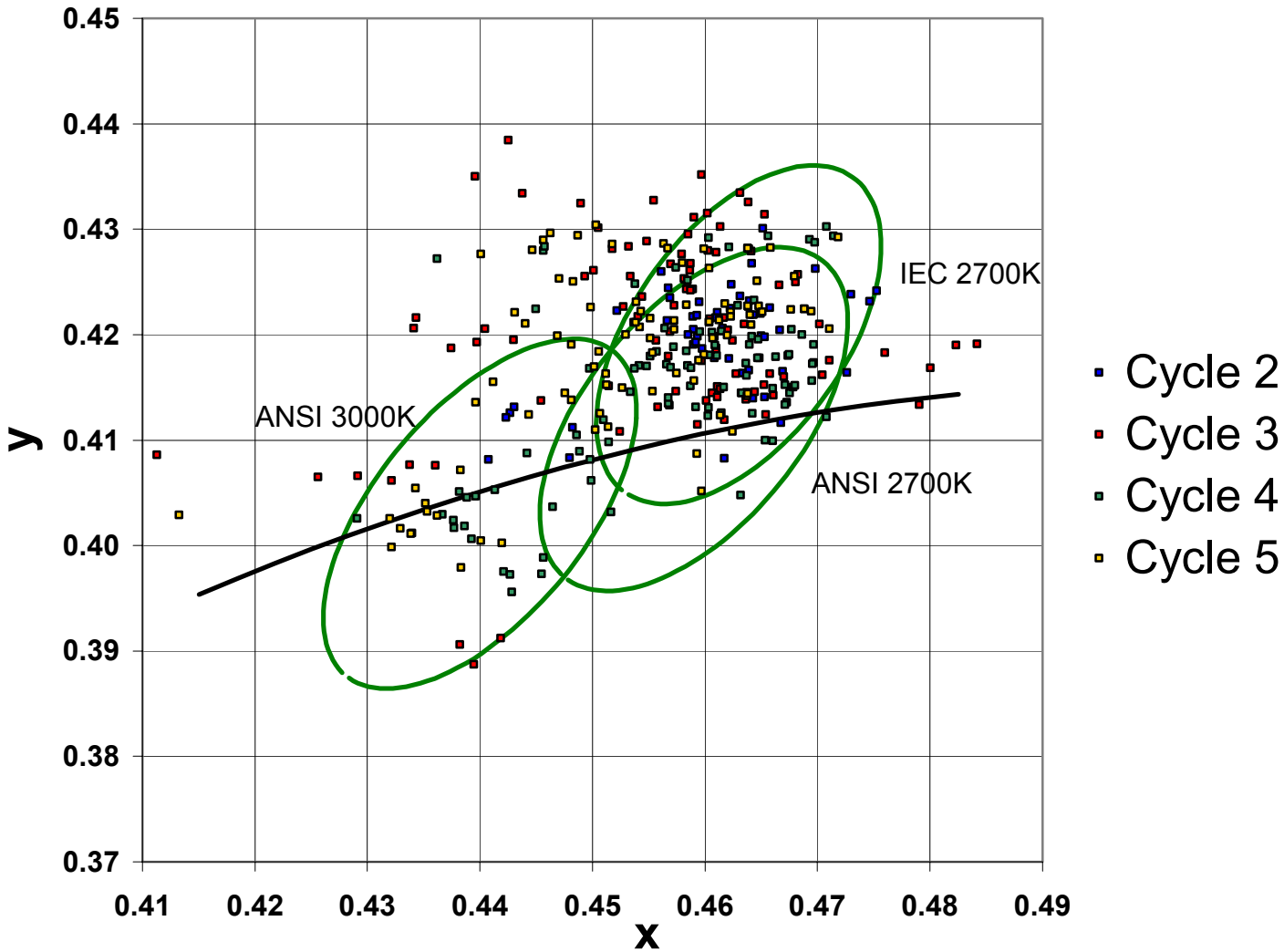
5 Step Ellipse



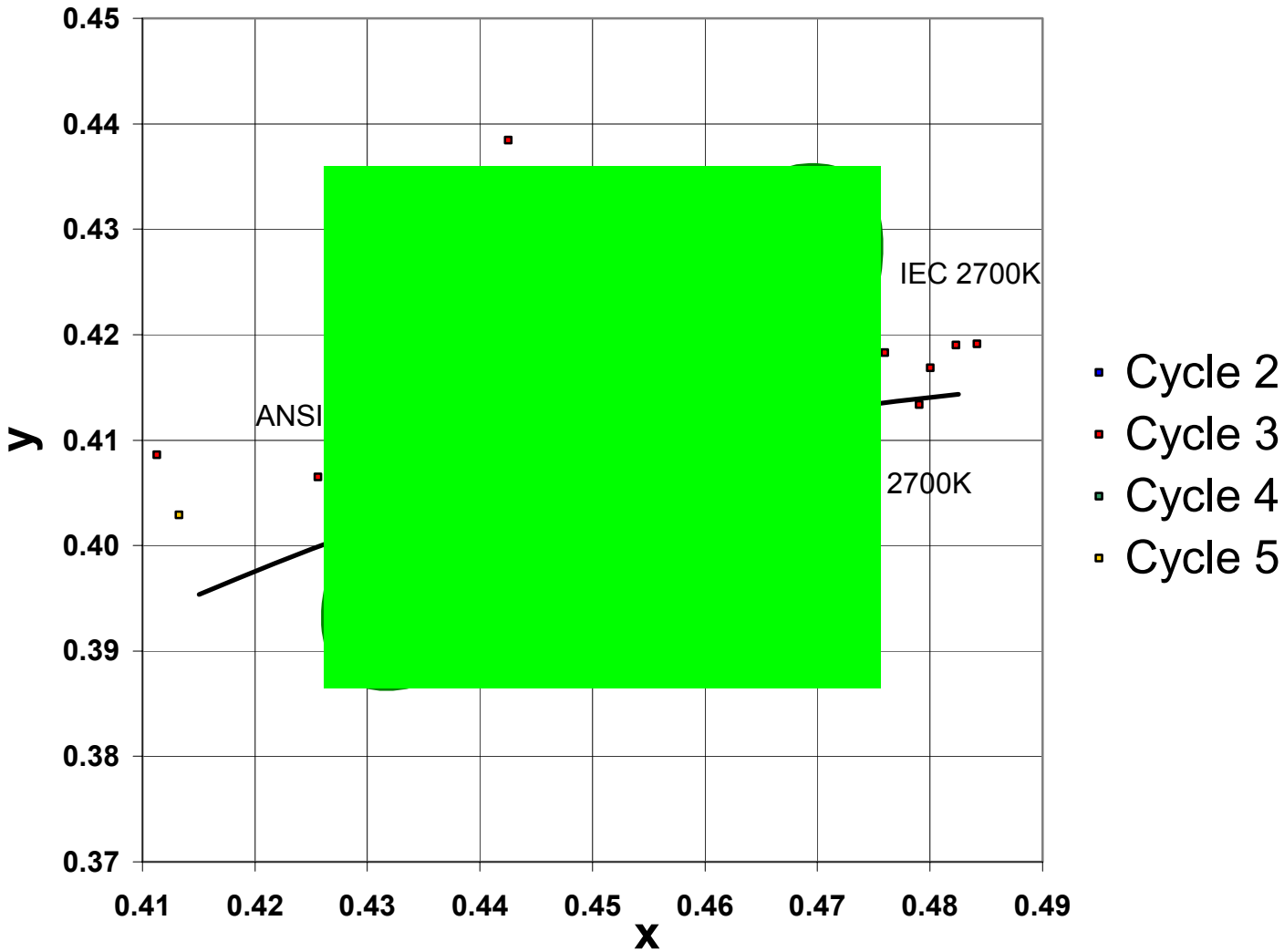
6 Step Ellipse



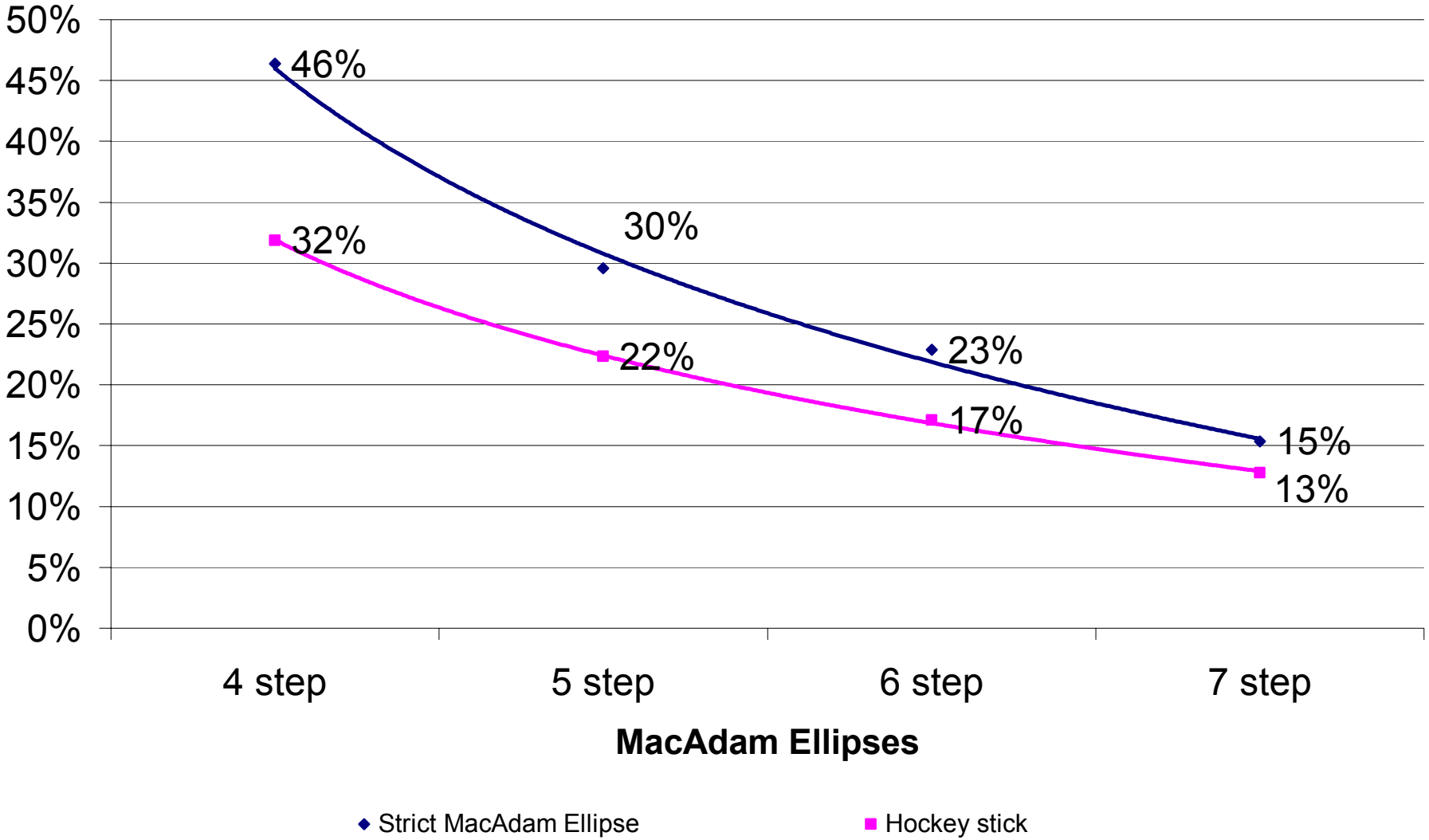
7 Step Ellipse



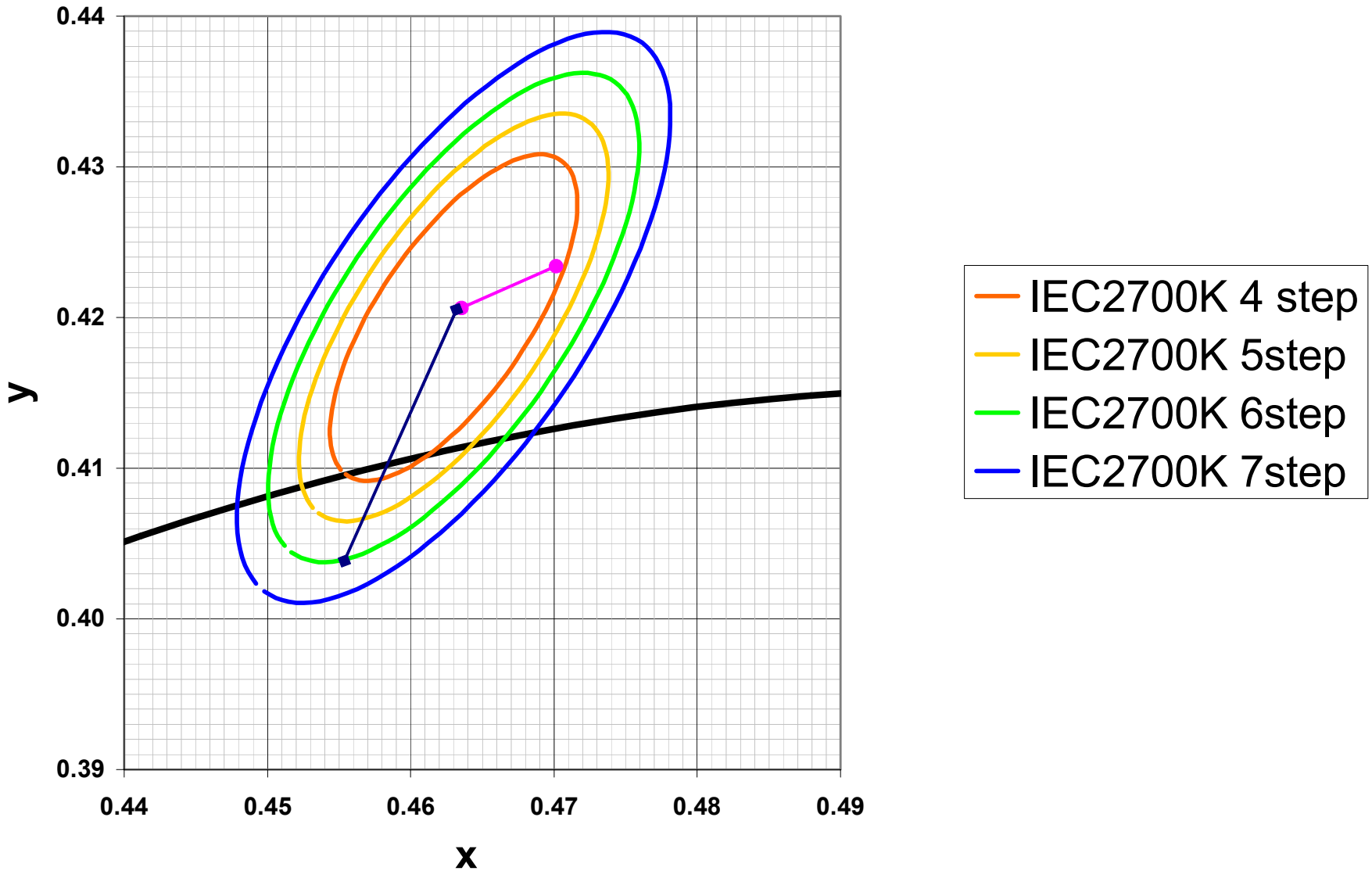
7 Step Ellipse Region



Percentage of CFLs Eliminated



Demonstration



Questions to Answer

- If a color difference is noticeable, how much is acceptable
- Does it matter which direction?
  - Green vs purple?
  - Blue vs red?

- What is the impact on efficacy?
  - How much green is acceptable?